

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/006793 A1**

(51) International Patent Classification<sup>7</sup>: **H04Q 7/32**,  
G01S 5/14, H04M 1/60, H04R 29/00, H04M 1/06

[CH/CH]; Sandackerstrasse 278, CH-4714 Aedermanns-  
dorf (CH).

(21) International Application Number:  
PCT/EP2004/006134

(74) Agent: RUPP, Christian; Mitscherlich & Partner, Son-  
nenstrasse 33, Postfach 33 06 09, 80066 München (DE).

(22) International Filing Date: 7 June 2004 (07.06.2004)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03014963.7 1 July 2003 (01.07.2003) EP

(71) Applicant (for all designated States except US): PRE-  
CISA INSTRUMENTS AG [CH/CH]; Moosmattstr. 32,  
CH-8953 Dietikon (CH).

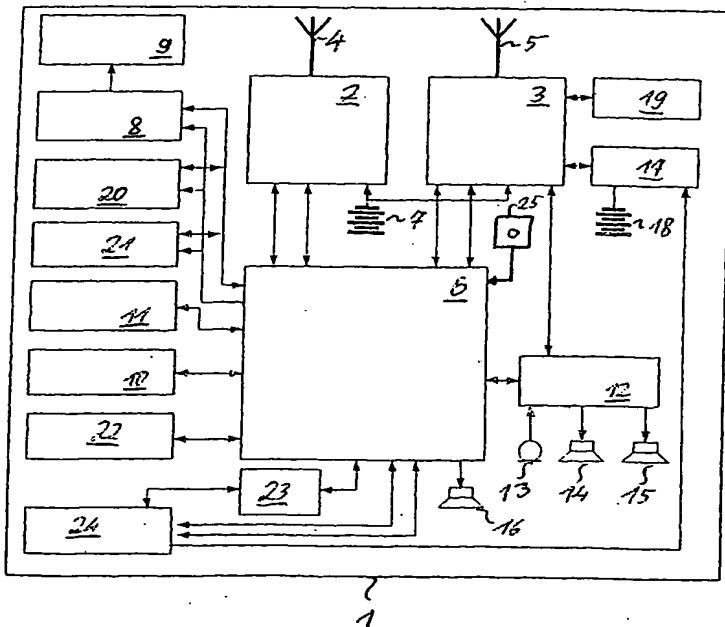
(72) Inventors; and

(75) Inventors/Applicants (for US only): HUBER, Rudolf  
[CH/CH]; Lejackerstrasse 238, CH-4714 Aedermanns-  
dorf (CH). BÜHLER, Rene [CH/CH]; Gartenstrasse  
59, CH-8134 Adliswil (CH). ALLEMANN, Stephan

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: MOBILE PHONE COMPRISING POSITION COMPUTATION MEANS



(57) Abstract: A mobile phone (1) comprising communication means (3, 5) for communicating via a telephone communication network (40), wherein the telephone communication network (40) comprises a plurality of stationary base stations (41, 42, 43, 44), detection means (3) for detecting both a strength value corresponding to the strength of a signal (61) received from the present base station (44) and an identification code of the present base station (44), position information reception means (2, 4) for continuously or intermittently receiving an information signal of a satellite-based positioning system (31, 32, 33), first computation means (2) for continuously or intermittently computing the current position of the mobile phone (1) based on the signal received by the position information reception means (2, 4) first storage means (20) for storing the positions computed by the first computation means (2) as first position values, second computation means (2) as first position values, second computations means (6) for continuously or intermittently computing the current

position of the mobile phone (1) based on the strength value and the identification code detected by the detection means (3) and second storage means (20) for storing the positions computed by the second computations means (6) as second position values. The inventive mobile phone (1) further comprises and position message compiling means (6) for compiling a position message comprising the most current position values computed by the first and second computation means (2, 6) wherein the communication means (3, 5) is adapted to send the position message via said telephone communication network (40).